

# Human Factors Plan

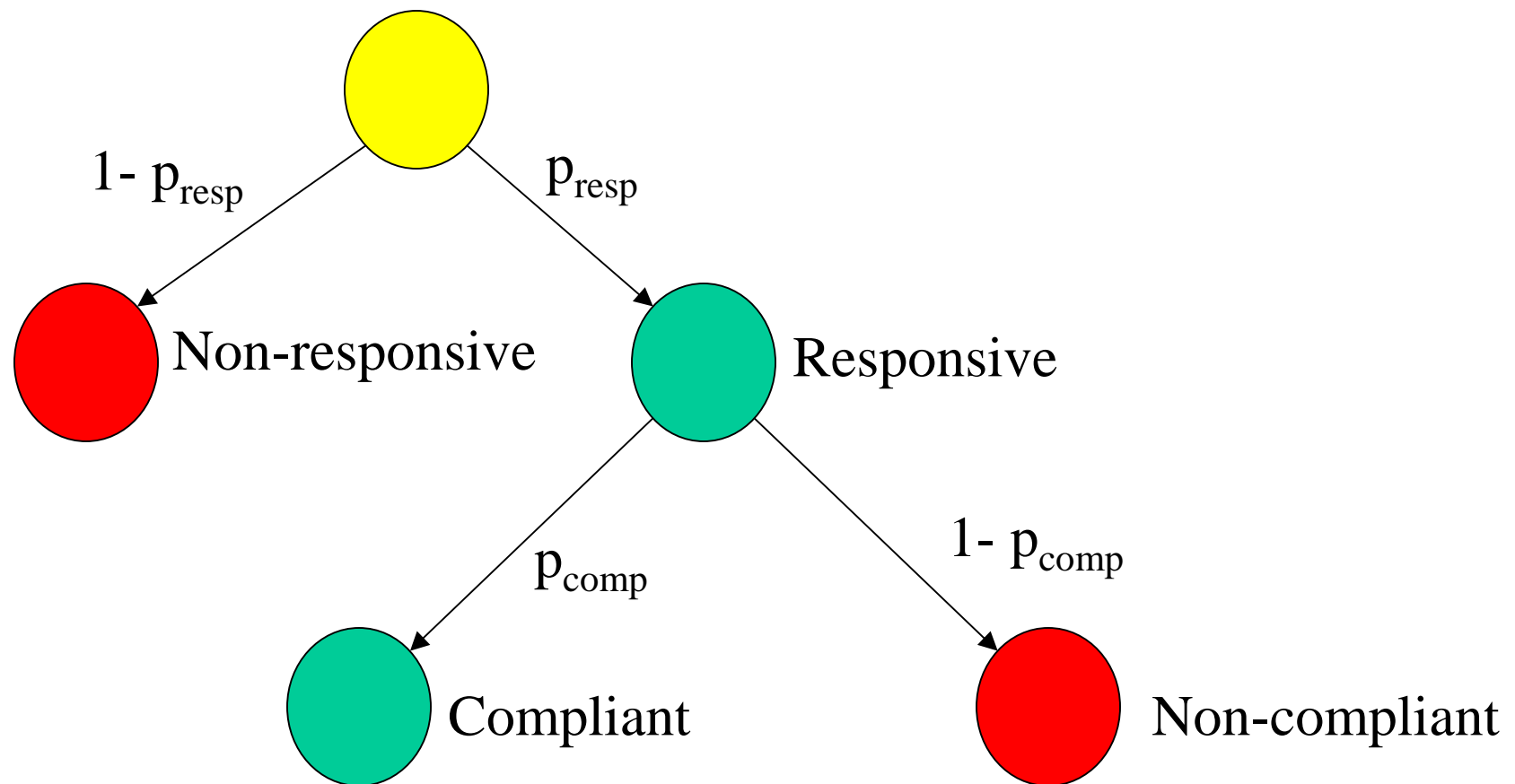
## Input Into The ASCAP Model

Las Vegas, 27-28 March 2001

# Human Reliability and ASCAP

- Meeting on 19 March 01 at FRA HQ
  - FRA, Volpe, UVA, CSXT, consultants
- Two levels of consideration
  - The Framework for human reliability
    - The “Big Picture”, general model
  - The Case Study (CBTM)
    - The specific application, the “content” of the model

# Framework For Human Reliability



# Framework For Human Reliability (continued)

- FRA, UVA Consultants, Drs. Roth, Wreathall, Guerlain: framework is adequate, generation of probabilities is not.
- Will further review model - agents, objects, interactions - to assure adequacy
  - Criterion: opportunity for known HF unsafe acts and for new unsafe acts
    - e.g., changes in technology ---> changes in modes of operation ---> new unsafe acts

# Framework For Human Reliability (continued)

- Weibull model for responsiveness is not currently accepted in the human reliability community.
- Roth and Wreathall will develop alternative means to generate probabilities.
- General method to obtain probabilities will be developed and described

# Human Reliability and the Safety Case for CBTM

- Specific Unsafe Acts
  - match CBTM - adequate set?
  - Are they in the model, not could they be
- Quantify Unsafe Acts
  - Models of quantification
    - THERP, SLIM/MAUD, etc.
  - Databases
  - Subjective assessment

# Human Reliability and the Safety Case (continued)

- Bayesian Updating
  - method to combine subjective assessment and objective data
  - use depends on amount of available objective data and timeframe

# Milestones

- 3/21 - Use cases and Rulebook to consultants
- 3/30 - Description of objects, agents, interactions, safety case to consultants
  - consultants review HEPs
- 4/15 - Guidelines for HF in ASCAP from consultants
- 8/1 - Consultants document methodology